

SYSTEM STUDY: Jefferson Davis Republic Landfill – Louisiana



FAST FACTS

Project:

 ✓ bioFAS[™] MBBR System for Landfill Leachate

Industry:

✓ Landfill Leachate

Application:

- Biochemical Oxygen
 Demand (BOD) Removal
- ✓ Nitrification of Ammonia

bioFAS[™] MBBR System Benefits/Highlights:

- Efficient reduction of BOD
- Ideal for high and varying loads
- Cost-effective
- Compact footprint & modular
- Easy to operate & maintain

Problem:

The Jefferson Davis Republic Landfill was experiencing high concentrations of ammonia in the leachate from their domestic landfill and needed to meet compliance standards for direct discharge.

Solution:

bioprocessH2O supplied a single stage bioFAS[™] Moving Bed Biofilm Reactor (MBBR) biological treatment process to remove ammonia from the aerobic lagoon effluent.

Status/Results:

The bioFAS[™] MBBR System effectively nitrifies ammonia allowing the landfill to remain in compliance with the effluent discharge requirements.

System Design Criteria:

Parameter	Influent	Effluent
Wastewater Flow	50,000 GPD	-
BOD	3,250 mg/L	≤100 mg/L
Ammonia	< 40 mg/L	≥11 lbs. ammonia removal/day

Contact bioprocessH2O today!